1. (Amended) A method for analyzing data for different data types, comprising:

selecting a set of attributes associated with an object, wherein the attributes selected comprise a plurality of data types selected from a group consisting of a text data type, a numerical data type, a categorical data type, and a sequence data type;

transforming the selected attributes into n-dimensional vectors;

applying transformation operations to the selected attributes;

indexing the n-dimensional vector, certain attributes, and a result of the transformation operations; and

displaying a representation of the object based on the selected attributes.

2. (Amended) A computer-implemented method of analyzing various data types, comprising the steps of:

defining a uniform data structure for representing objects of different data types;

segmenting certain attributes of a plurality of different objects of different data types into elements that are representable in said uniform data structure; and

operating on said certain attributes to produce at least one representation of said objects based on said uniform data structure.

4. (Amended) The method of claim 3 wherein said plurality of different data types comprise a combination of any three of numeric, reference string, categorical and text data types.

5. (Amended) The method of claim 4 wherein said data types comprise a numeric data type, a sequence string data type, a categorical data type and a text data.

8. (Amended) The method of claim 6 wherein said operating further produces a second vector representation.

14. (Amended) The method of claim 2, further comprising using said representation to identify cluster groups of related objects.

16. (Amended) A method of identifying relationships among different visualizations of a plurality of data sets, each data set comprising a set of objects, comprising the steps of:

displaying first graphical results of a first type analysis performed on selected attributes of a first data set;

displaying second graphical results of a second type analysis performed on selected attributes of a second data set;

selecting certain objects represented in said first graphical results; and

highlighting corresponding objects represented by said second graphical results that correspond to said certain objects.

19. (Amended) A system for producing visualizations for various data types, comprising:

a first data processing engine operative to receive different types of data;

a second data processing engine operative to modify a first type of said data to conform said data to a standardized format that is used in identifying relationships among attributes of objects contained in said data; and

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a third data processing engine for creating a first high dimensional vector for a second type of data and for creating a second high dimensional vector for the modified data, each data type being an input into said engine, wherein said high dimensional vectors are operative to be compared to identify relationships that exist between the first and second data type.

Please add new claims 63-64, as follows:

63.   (New) A method for visually analyzing data comprising a plurality of data types, the method comprising:

selecting one or more attributes of the data;

transforming, in accordance with an operation set, the selected attributes to create a context vector; and

creating a visual representation of the data from the context vector.

64.   (New) The method of claim 63, further comprising defining a common set of tools for visually representing the plurality of data types.

REMARKS

Summary Of Office Action

Claims 1-19 are currently pending in this application, and claims 20-62 have been withdrawn from consideration. [1] In the Office Action, the Examiner objected to claims 5 and 16-

FINNEGAN
HENDERSON
FARABOW
GARRETT &
DUNNER LLP

1300 I Street, NW
Washington, DC 20005
202.408.4000
Fax 202.408.4400
www.finnegan.com

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[1] Applicants also seek to clarify an inadvertent error in the Restriction Requirement and Response to the Restriction Requirement. In the Restriction Requirement, the Examiner characterized claim 45-58 as belonging to Group III, but did not include dependent claims 59-62 (dependent from claim 55) in any of the Groups. Applicants submit that claims 59-62 are properly categorized in Group III along with corresponding independent claim 55.